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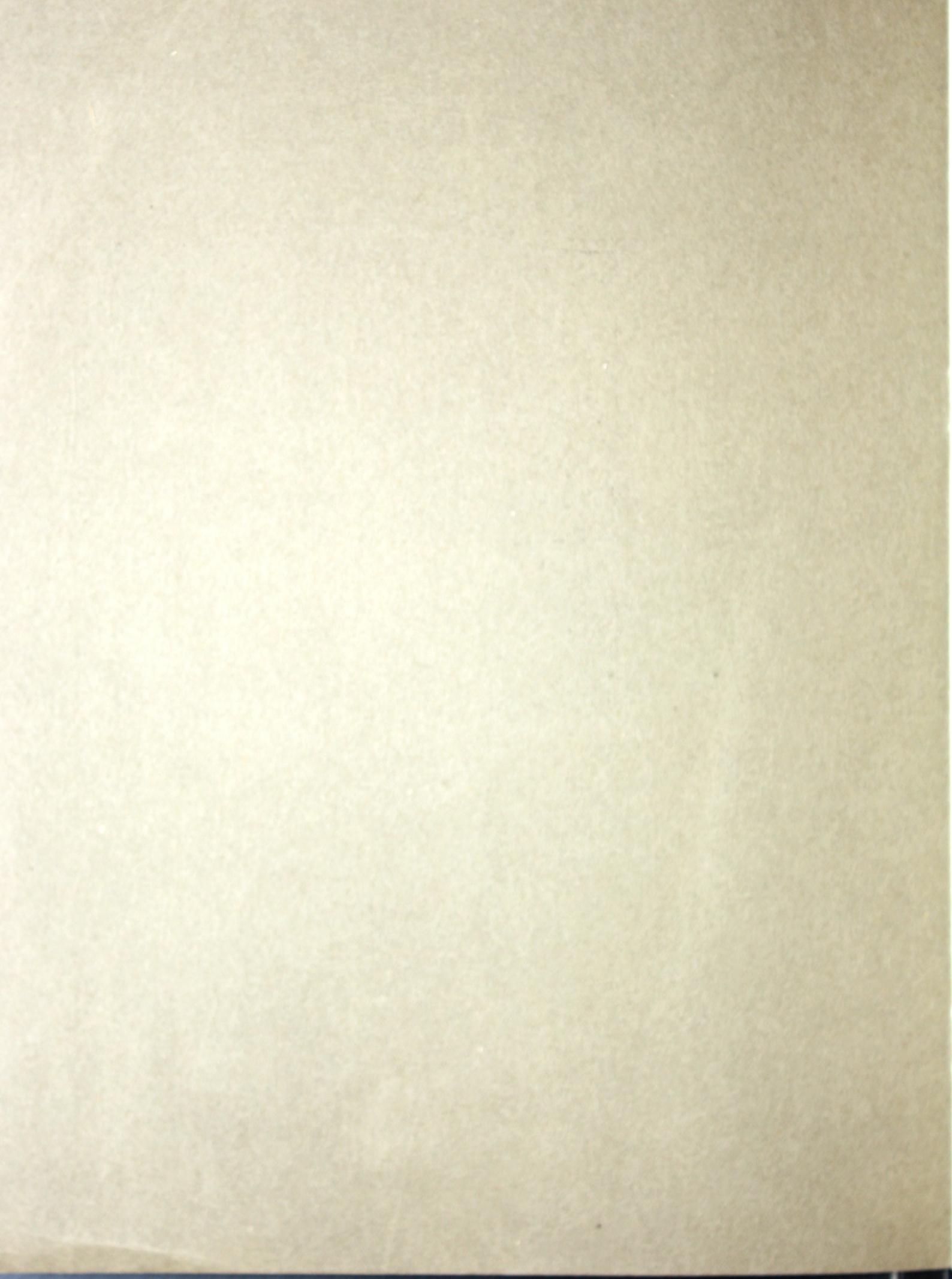
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# SON LUX

INDUSTRIAL  
LIGHTING  
REFLECTORS  
-- AND --  
FIXTURES

SCHEDULE  
"H"

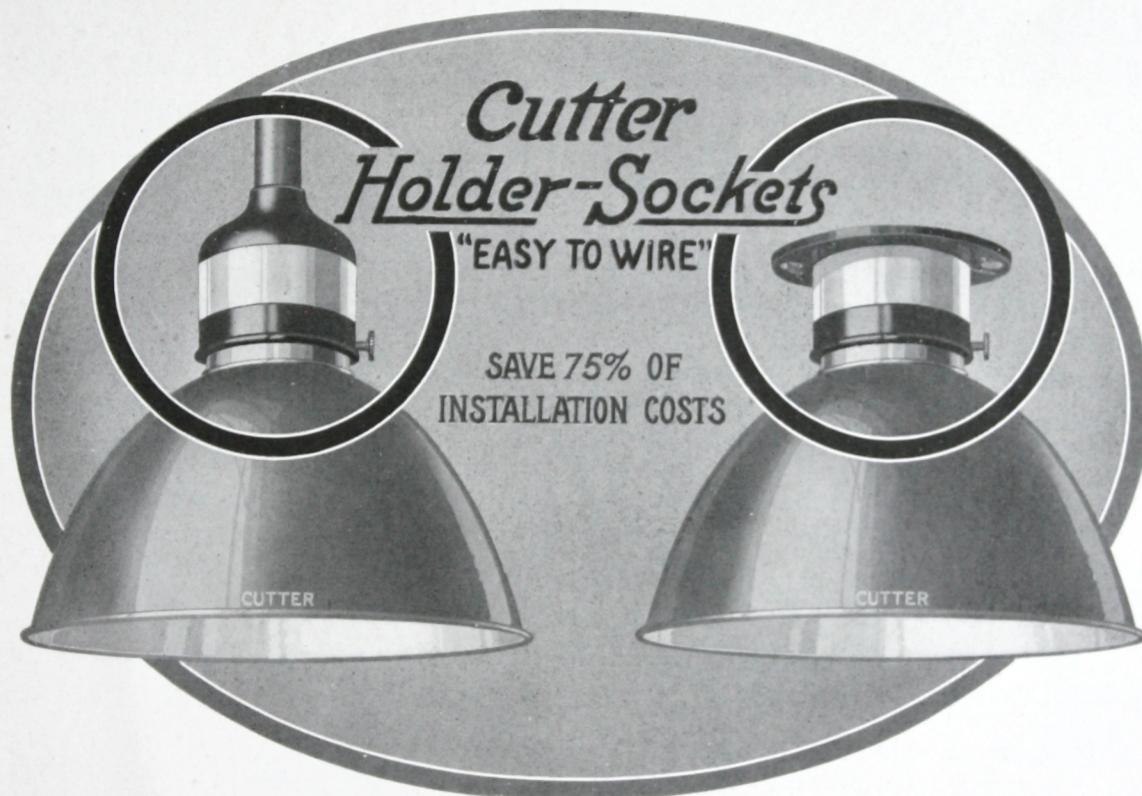
GEORGE CUTTER COMPANY  
SOUTH BEND INDIANA



**SOLOLUX**

# Industrial Lighting Reflectors and Fixtures

SCHEDULE "H"



**Bulletin No. 3337**

January 21, 1918

*Prices on material listed in this bulletin supersede all previous lists,  
including Catalog 14 and Bulletins 3281, 3282 and 3313*

**GEORGE CUTTER COMPANY**  
SOUTH BEND, IND., U. S. A.

CHICAGO  
28 East Jackson Blvd.

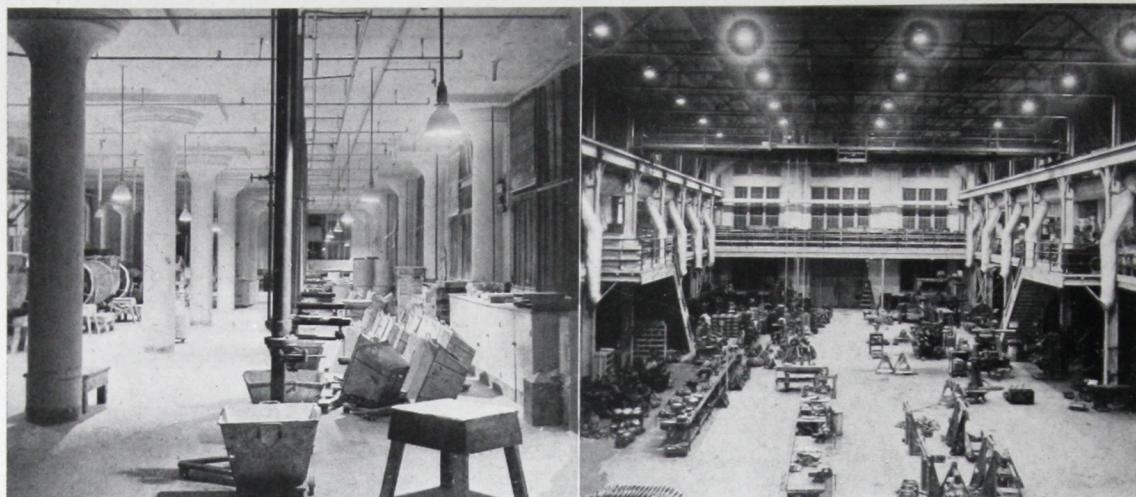
LOS ANGELES  
San Fernando Building

DETROIT  
426 Ford Building

SAN FRANCISCO  
583 Howard Street

NEW YORK  
30 Church Street

SEATTLE  
309 First Ave. So.



## The Value of Good Industrial Lighting

A well-designed system of industrial illumination will demonstrate its own success by increasing production, by reducing operating expenses, and by maintaining or improving the quality of the manufactured products. These result in increased dividends, a convincing argument for the necessity of adequate facilities for the illumination of industrial plants. The lack of good light is a burden that must be carried at the expense of reduced output.

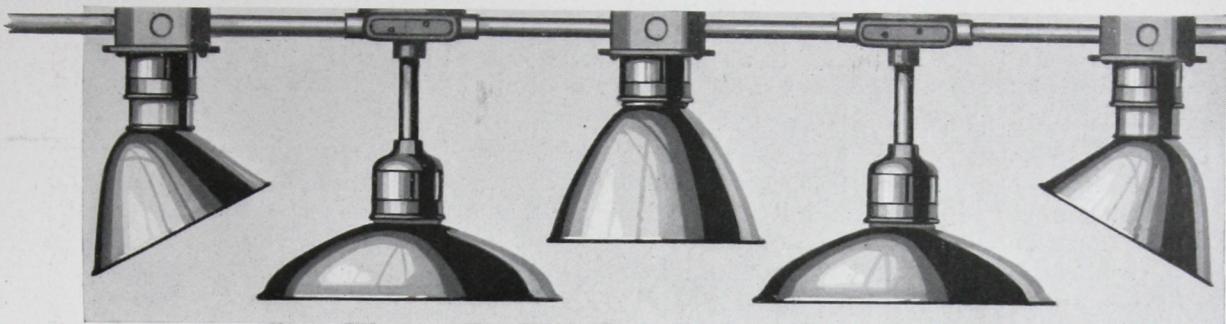
Statistics show that if the average expense of five workmen and their supervision equals \$5,000 annually, the cost of light is paid for if it saves only three minutes daily of each man's time—or one-half of one per cent of the cost of wages and supervision. Yet it has been proven by extensive tests that good light, on an average, saves 30 minutes daily per man, resulting in an average increase in production of five per cent.

Although the cost of installing a good lighting system is low in comparison to the returns, there are a large number of advantages secured. These include:

- Increased production for the same labor costs and overhead.
- Reduction of spoilage and seconds.
- Greater accuracy in workmanship.
- Better products.
- Reduction in the number of accidents.
- Less eye strain.
- Improved health conditions for employees.
- More cheerful surroundings.
- Greater comfort for workmen.
- More order and neatness in the shop.
- Better supervision of men at night and on dark days.

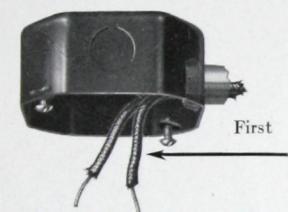
These advantages may be secured by the installation of Cutter "Sol-lux" Industrial Lighting Equipment, which is designed with the prime object of enabling manufacturers to obtain the most productive service from the installation of adequate lighting facilities.

The design of "Sol-lux" Reflectors and Fixtures represents the most modern illuminating engineering practice; they are designed not only for new installations but for correcting the faults of obsolete systems.

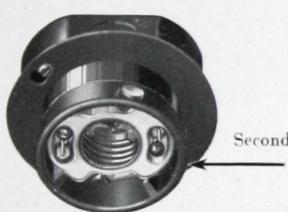


## Cutter Holder-Sockets

The use of the Cutter Holder-Sockets, which are combination holders for standard-heel reflectors and sockets for Mazda lamps, is an important factor in obtaining efficient illumination for industrial plants. The functions of Holder-Sockets, their simple construction and advantageous features recommend them for installations where utility and efficiency are the determining factors.



*Save Installation Costs*—Holder-Sockets are easy to wire. They can be installed by one man in a few minutes because only two or three operations are necessary to wire them. In the case of the Holder-Socket for conduit attachment, the cap is screwed to the conduit and the wires are pulled through the holes in the porcelain body and fastened to the terminals. The Holder-Socket is then completely wired, ready for the reflector and lamp; there are no loose wires to stuff back or washers and lock-nuts to adjust.



Only Two Operations Necessary  
for Installing Holder-Sockets  
Direct to Outlet Box

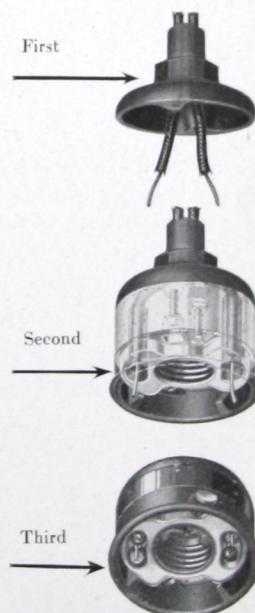
lamps need not be used; the correct size with the proper type of reflector at every outlet insures a maximum amount of properly distributed light with a minimum amount of energy consumption.

*Efficient Use of Reflectors*—Holder-Sockets hold reflectors in their correct position with respect to the lamp filament, thereby securing the distribution of light for which reflectors are designed. The maximum amount of light is therefore directed to the working planes.

The efficiency of reflectors is greatly reduced if they are not kept clean. Reliable tests show that, on the average, the loss of light amounts to nearly 50 per cent of that which is available when reflectors and lamps are cleaned. The use of Holder-Sockets with standard-heel reflectors encourages cleaning, because reflectors can be removed and replaced quickly and easily.

Holder-Sockets hold reflectors rigidly and in a level position. When attached to conduit, reflectors are not tipped at an angle, and it is not necessary to bend the conduit stem in order to level the reflector. The method of supporting the reflector is extremely simple; two lugs and a thumb-screw engage the groove in the heel of the reflector and the thumb-screw locks it firmly in place.

*Simplicity of Construction*—The Holder-Socket is provided with a cast-iron skirt which has two lugs and a thumb-screw for engaging the groove in the heel of the reflector; this skirt is attached, by means



Only Three Operations Necessary  
for Wiring Holder-Sockets  
for Attachment to Conduit

of two screws, to a porcelain body which includes the socket shell and wiring terminals. The porcelain body is attached to a cap tapped for  $\frac{1}{2}$ -inch conduit, or to a 4-inch outlet-box cover by means of two screws. These screws are independent of those which support the skirt for holding the reflectors.

*Methods of Attachment*—Holder-Sockets can be applied to any type of installation because there are four methods of attachment. They are not limited to the usual method of attachment to  $\frac{1}{2}$ -inch conduit stems. Holder-Sockets with 4-inch outlet-box covers may be fastened directly to an outlet box. They may be installed as close as possible to the ceiling, a decided advantage in buildings where the headroom is low. Holder-Sockets for drop-cord attachment are provided with a porcelain bushing in the cap, preventing abrasion of the cord and insuring permanent insulation. Used with suspension rings or eyes, Holder-Sockets may be supported by means of chain or cord.

*Reflectors Are Insulated*—Holder-Sockets insulate the reflector body from the conduit, a "Safety-First" feature which is obtained without the necessity of installing an insulating joint.

*Neat and Compact*—Because of their simple construction, Holder-Sockets are neat, compact and make a good appearance.

*Approved Construction*—The design and construction of Holder-Sockets conform to the rules of the National Board of Underwriters.



Holder-Socket with Cap for Attachment to  $\frac{1}{2}$ -inch Conduit



Holder-Socket with 4-inch Outlet-Box Cover



Holder-Socket with Porcelain Bushing for Reinforced Drop-Cord Suspension

Holder-Sockets are made with cap for attachment to  $\frac{1}{2}$ -inch conduit stems, with outlet-box cover for attachment directly to outlet boxes, and with cap and porcelain bushing for suspension by reinforced drop cord. Holder-Sockets are made for both  $2\frac{1}{4}$ -inch and  $3\frac{1}{4}$ -inch standard-heel reflectors.

### $2\frac{1}{4}$ -inch Holder-Sockets

#### Holders with Keyless Porcelain Medium Screw Sockets

Trade No.	Description	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30650	With cap for attachment to $\frac{1}{2}$ -inch conduit stem.....	20	30	\$1.00
30651	With cover for attachment to 4-inch outlet-box.....	20	25	1.00
30652	With porcelain bushing for reinforced drop-cord suspension.....	20	30	1.00

### $3\frac{1}{4}$ -inch Holder-Sockets

#### Holders with Keyless Porcelain Mogul Screw Sockets

30654	With cap for attachment to $\frac{1}{2}$ -inch conduit stem.....	10	35	1.50
30655	With cover for attachment to 4-inch outlet-box.....	10	30	1.50
30656	With porcelain bushing for heavy drop-cord suspension .....	10	35	1.50

### $2\frac{1}{4}$ -inch Skeleton Holders

Skeleton holders are made for use with porcelain and brass-shell sockets and for  $2\frac{1}{4}$ -inch standard-heel reflectors only.

Trade No.	Description	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30500	For brass-shell sockets.....	144	7	\$0.10
30501	For porcelain sockets.....	144	7	.14



$2\frac{1}{4}$ -inch Skeleton Holder for Brass-Shell Sockets



$2\frac{1}{4}$ -inch Skeleton Holder for Porcelain Sockets

### SCHEDULE "H" DISCOUNTS

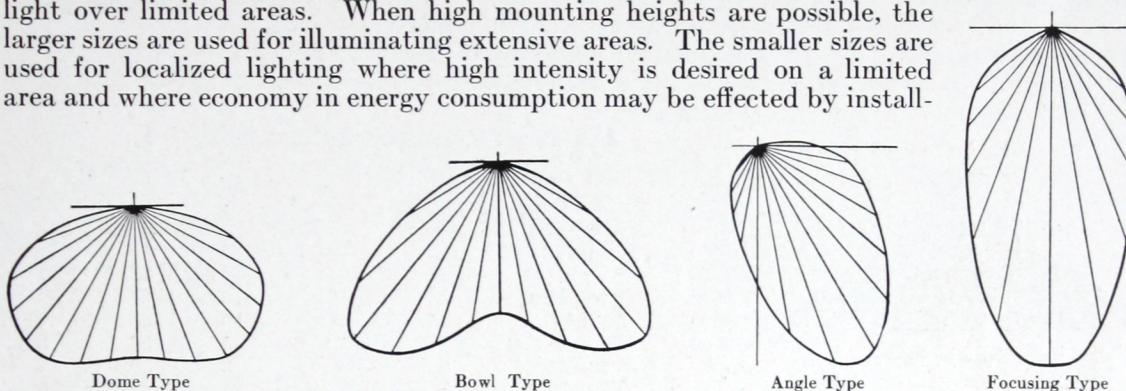
## Cutter ~~SOLUX~~ Reflectors

The functions of a reflector are to properly redirect and diffuse the light from the lamp and to shade the brilliant filament. "Sol-lux Reflectors" are designed according to the latest and best illuminating engineering practice and give types of light distribution which have been found by exhaustive tests in laboratories and in service to be the most suitable and efficient for factory, billboard, show-window and other lighting installations to which metal reflectors are adapted.

### Types of Distribution

*Dome or Distributing Type Reflectors* are designed particularly for general illumination. They are used in large factory rooms, warehouses, etc., especially where ceilings are low. The correct mounting height above the working plane is one-third the spacing of outlets.

*Bowl or Extensive Type Reflectors* are designed to concentrate the light over limited areas. When high mounting heights are possible, the larger sizes are used for illuminating extensive areas. The smaller sizes are used for localized lighting where high intensity is desired on a limited area and where economy in energy consumption may be effected by install-



ing lamps of low wattage near the working plane. For uniform general illumination, bowl reflectors should be mounted at a height equal to one-half the spacing of outlets.

*Focusing Type Reflectors* are designed for localized lighting where a high intensity is required over a small area. The smaller units are used for lighting bench work and similar operations, while the larger units may be used to provide a high intensity of general illumination, the mounting height being one and one-half the spacing of outlets.

*Angle Type Reflectors* are designed for use when the lamps cannot be suspended directly over the areas to be illuminated. They are used for lighting machine tools, billboards and show windows; the large units may be used for general illumination, the correct mounting height being four-fifths the spacing of outlets.

### Reflector Finishes

*Porcelain Enamel Finish*—"Sol-lux" porcelain-enamelled reflectors are surfaced with three coats of enamel; the first is a binding coat, and the next two coats are of the best quality of pure white porcelain for the interior and of a dark green porcelain for the exterior. These are baked at high temperature, giving a glossy finish superior for the reflection of light, permanent in color, free from cracks and pin-holes, extremely durable and easy to clean. Cutter porcelain enamel finish has been developed after extensive laboratory experiments which have proven it to be superior for reflecting qualities—a high degree of light diffusion is obtained with a minimum amount of absorption.

*Paint Enamel Finish* consists of three interior and two exterior coats of paint smoothly applied and baked on at a high temperature. This finish is durable and permanent in color.

*Enam-aluminum Finish* consists of three interior and two exterior coats. The final interior coat is a transparent, washable enamel that is baked over and protects a highly efficient reflecting coat of matte aluminum. This surface does not collect dirt readily and can be cleaned easily.

### Key to Trade Numbers

Trade numbers for reflectors consist of six digits. The first digit represents finish, 3 being used for porcelain-enamel, 2 for enam-aluminum and 1 for paint enamel. The second digit represents the type of holder or size of heel, 1 being used for snap-ring holders, 2 for 2 $\frac{1}{4}$ -inch and 3 for 3 $\frac{1}{4}$ -inch standard heels. The third digit represents the distribution, 3 being used for dome type reflectors, 1 for bowl type, 5 for focusing type, and 4 for angle type. The last three digits represent the proper lamp size for the reflector, 000 being used for the 1000-watt size. Example—321200; 3, porcelain-enamel; 2, 2 $\frac{1}{4}$ -inch standard heel; 1, bowl type reflector, and 200, 200-watt Mazda lamp.

## Cutter **SOLUX** Industrial Lighting Reflectors With Standard Heels

One of the principal advantages of standard-heel reflectors is that different types of reflectors with the same size of heel may be used with the same holder, which permits changes in light distribution without disturbing the wiring. Other advantages are that reflectors may be removed easily for cleaning, and that the heels prevent the chipping of the enameled surfaces, thus greatly lengthening the life of the reflectors. Copper heels are furnished with Cutter porcelain enameled reflectors and spun-steel heels with enam-aluminum reflectors. The  $2\frac{1}{4}$ -inch heel is supplied on reflectors for 200-watt lamps and smaller, and the  $3\frac{1}{4}$ -inch heel on reflectors for 300-watt lamps and larger. Standard-heel reflectors used with Cutter Holder-Sockets are recommended for conduit and reinforced drop-cord installations. Skeleton holders may be used for attaching  $2\frac{1}{4}$ -inch standard-heel reflectors to brass-shell or porcelain sockets.



Standard  $2\frac{1}{4}$ -inch and  
 $3\frac{1}{4}$ -inch Heels



Dome or Distributing Type

### Dome or Distributing Type Porcelain Enamel, White Interior, Green Exterior

Trade No.	For Mazda Lamp Size	Diam. Inches	Depth Inches	Std. Pkg.	Wt., Lbs.	Std. Pkg.	Price Each
323040	25-40	10	$3\frac{5}{8}$	20	35		\$1.00
323060	40-60	12	$4\frac{1}{8}$	15	25		1.15
323075	75	12	$4\frac{7}{8}$	15	35		1.35
323150	100-150	15	$6\frac{1}{4}$	10	37		2.00
323200	200	15	7	10	38		2.10
333500	300-400-500	18	7	5	35		3.00
333000	750-1000	20	10	3	30		4.60

### Baked Paint Enamel, White Interior, Green Exterior

123040	25-40	10	$3\frac{5}{8}$	20	30		.65
123060	40-60	12	$4\frac{1}{8}$	20	37		.75
123075	75	12	$4\frac{7}{8}$	15	35		.80
123100	100	15	$6\frac{1}{4}$	10	37		1.20



Bowl or Extensive Type

### Bowl or Extensive Type Porcelain Enamel, White Interior, Green Exterior

321060	25-40-60	$7\frac{1}{4}$	$4\frac{3}{4}$	50	50		.95
321075	75	$8\frac{1}{4}$	$5\frac{3}{4}$	20	35		1.10
321150	100-150	$8\frac{1}{4}$	$6\frac{1}{4}$	20	35		1.15
321200	200	$8\frac{1}{4}$	7	20	35		1.60
331500	300-400-500	$12\frac{1}{4}$	$7\frac{1}{2}$	10	30		2.70
331000	750-1000	$15\frac{1}{4}$	$10\frac{3}{4}$	5	35		3.60

### Bowl or Extensive Type

### Porcelain Enamel, White Interior, Green Exterior



Focusing Type

### Enam-aluminum Interior, Green Baked Paint Exterior

221060	25-40-60	$7\frac{1}{4}$	$5\frac{1}{4}$	50	40		.70
221075	75	$8\frac{1}{4}$	$6\frac{1}{4}$	20	35		.85
221150	100-150	$8\frac{1}{4}$	$7\frac{1}{4}$	20	35		.87
221200	200	$8\frac{1}{4}$	8	20	35		1.10

### Focusing Type

### Enam-aluminum Interior, Green Baked Paint Exterior

225040	25-40	$6\frac{5}{8}$	$4\frac{3}{8}$	50	35		.47
225060	60	8	5	40	40		.70
225075	75	8	$5\frac{3}{4}$	20	35		.85
225100	100	10	$7\frac{1}{4}$	20	35		1.10



Angle Type

### Angle Type Porcelain Enamel, White Interior, Green Exterior

324040	25-40	$6\frac{3}{4}$	$5\frac{1}{2}$	50	40		1.15
324060	60	8	$6\frac{3}{4}$	30	40		1.30
324075	75	8	$7\frac{1}{2}$	20	40		1.45
324200	100-150-200	$10\frac{1}{8}$	$9\frac{1}{4}$	20	40		1.95
334500	300-400-500	$12\frac{1}{4}$	$11\frac{5}{8}$	5	20		3.55
334000	750-1000	$15\frac{1}{4}$	$15\frac{1}{2}$	3	30		5.25

224040	25-40	$6\frac{3}{4}$	$5\frac{1}{2}$	50	40		.47
224060	60	8	$6\frac{3}{4}$	40	40		.70
224075	75	8	$7\frac{1}{2}$	20	35		.85
224100	100	$10\frac{1}{8}$	$9\frac{1}{4}$	20	35		1.20

### SCHEDULE "H" DISCOUNTS

## Cutter SOLUX Industrial Lighting Reflectors

### With Snap-Ring Holders for Brass-Shell Sockets

The snap-ring holder forms an easy and dependable method of attaching reflectors to brass-shell sockets. When attaching the snap-ring holder to the socket, the socket shell is placed over the reflector at an angle. The snap-ring is expanded to let the bead of the socket shell slip into the groove in the snap-ring, and the tension holds the reflector firmly in place. The snap-ring holder is substantial in construction and positive in operation. Reflector styles 313150, 313200, 113100, 314200 and 214200 are furnished with the clamp strap shown in the accompanying illustration. This strap is used on heavy reflectors and is recommended for use on those which are subjected to considerable vibration. When so ordered, clamp straps will be furnished with reflectors other than those specified above for 7 cents list additional.



Snap-Ring Holder with Clamp Strap

Cutter "Sol-lux" Reflectors equipped with snap-ring holders are of the same quality and design as those equipped with standard heels.

### Dome or Distributing Type

#### Porcelain Enamel, White Interior, Green Exterior

Trade No.	For Mazda Lamp Size	Diam. Inches	Depth Inches	Std. Pkg.	Wt., Lbs. Std. Pkg.	Price Each
313040	25-40	10	3 $\frac{7}{8}$	20	35	\$1.03
313060	40-60	12	4 $\frac{3}{8}$	15	25	1.18
313075	75	12	5 $\frac{1}{8}$	15	35	1.38
313150	100-150	15	6 $\frac{1}{2}$	10	37	2.10
313200	200	15	7 $\frac{1}{4}$	10	38	2.20



Dome or Distributing Type

#### Baked Paint Enamel, White Interior, Green Exterior

113040	25-40	10	3 $\frac{7}{8}$	20	30	.68
113060	40-60	12	4 $\frac{3}{8}$	20	37	.78
113075	75	12	5 $\frac{1}{8}$	15	35	.83
113100	100	15	6 $\frac{1}{2}$	10	37	1.30



Bowl or Extensive Type

#### Porcelain Enamel, White Interior, Green Exterior

311060	25-40-60	7 $\frac{1}{4}$	5	50	50	.98
311075	75	8 $\frac{1}{4}$	6	20	35	1.13
311150	100-150	8 $\frac{1}{4}$	6 $\frac{1}{2}$	20	35	1.18
311200	200	8 $\frac{1}{4}$	7 $\frac{1}{4}$	20	35	1.63

#### Enam-aluminum Interior, Green Baked Paint Exterior

211060	25-40-60	7 $\frac{1}{4}$	5 $\frac{1}{2}$	50	40	.73
211075	75	8 $\frac{1}{4}$	6 $\frac{1}{2}$	20	35	.88
211150	100-150	8 $\frac{1}{4}$	7 $\frac{1}{2}$	20	35	.90
211200	200	8 $\frac{1}{4}$	8 $\frac{1}{4}$	20	35	1.13



Bowl or Extensive Type

### Focusing Type

#### Enam-aluminum Interior, Green Baked Paint Exterior

215040	25-40	6 $\frac{5}{8}$	4 $\frac{5}{8}$	50	35	.50
215060	60	8	5 $\frac{1}{4}$	40	40	.73
215075	75	8	6	20	35	.88
215100	100	10	7 $\frac{1}{2}$	20	35	1.13



Focusing Type

### Angle Type

#### Porcelain Enamel, White Interior, Green Exterior

314040	25-40	6 $\frac{3}{4}$	5 $\frac{3}{4}$	50	40	1.18
314060	40-60	8	7	30	40	1.33
314075	75	8	7 $\frac{3}{4}$	20	40	1.48
314200	100-150-200	10 $\frac{1}{8}$	9 $\frac{1}{2}$	20	40	2.05

#### Enam-aluminum Interior, Green Baked Paint Exterior

214040	25-40	6 $\frac{3}{4}$	5 $\frac{3}{4}$	50	40	.50
214060	40-60	8	7	40	40	.73
214075	75	8	7 $\frac{3}{4}$	20	35	.88
214200	100-150-200	10 $\frac{1}{8}$	9 $\frac{1}{2}$	20	35	1.30

### SCHEDULE "H" DISCOUNTS

#### Angle Type

## Reflecto-Cap-Diffusers

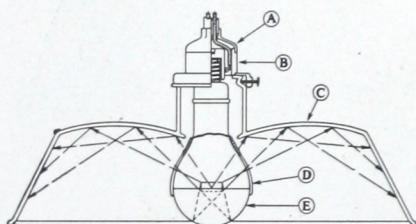
The Reflecto-Cap-Diffuser consists of a 20-inch steel reflector (finished with green porcelain-enamel on the outside, and white porcelain-enamel on the inside), and a silver-plated cap, highly polished on the inside, and provided with a wire holder for attaching it to the bulb of a Mazda "C" Lamp.



Reflecto-Cap-Diffuser Assembled



Parts of Reflecto-Cap-Diffuser, Showing Reflector, Holder-Socket and Silver-Plated Cap



Cross-Section of Reflecto-Cap-Diffuser  
A,  $\frac{1}{2}$ -inch Cap; B, Holder-Socket; C, Porcelain Enameled Reflector; D, Wire Spring Holder for Cap; E, Cap Silver-Plated on Inside

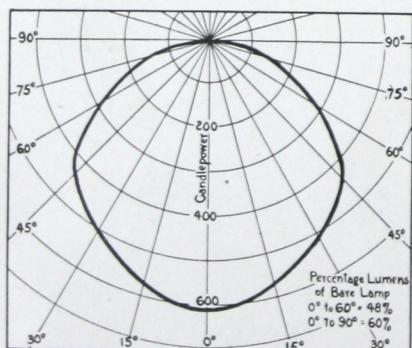


Diagram Showing Distribution of Light from the Reflecto-Cap-Diffuser

Direct glare is eliminated by the Reflecto-Cap-Diffuser by means of the silver-plated cap which covers the lower part of the bulb of the lamp. This cap conceals the filament and directs the rays of light to the large reflector above. The light is distributed evenly over the entire surface of the reflector, so that it is possible to view the unit from any direction without discomfort to the eyes. The size and shape of the reflector has been scientifically determined to give a thorough diffusion of light, and thus eliminate reflected glare from shiny objects in the working plane. The net result of illumination with this system is that the eyes can perform their tasks at all times without any discomfort, because all objects are evenly and softly illuminated.

Cutter "Sol-lux" bowl and dome types of reflectors are suitable for widespread use in mills and factories, and the Reflecto-Cap-Diffuser is not intended to supplant them for general factory lighting. But where illumination of high intensity is required for detailed and accurate workmanship, or where materials with polished or oily surfaces offer special danger from reflected glare, the Reflecto-Cap-Diffuser should be installed. The units should be spaced not to exceed one and two-thirds times their height from the working plane.

### Reflecto-Cap-Diffusers

#### For 100 and 150-Watt Lamps

Trade No.	Description	Std. Pkg.	Wt., Lbs. Std. Pkg.	Price Each
30658	Complete unit, including Holder-Socket, reflector and metal cap	3	25	\$7.15
30659	Holder-Socket only ( $3\frac{1}{4}$ -inch holder with medium socket)	10	20	1.20
30660	Reflector only	3	5	5.00
30661	Cap, with wire holder	12	2	.95

#### For 200-Watt Lamps

30662	Complete unit, including Holder-Socket, reflector and metal cap	3	25	7.20
30663	Holder-Socket only ( $3\frac{1}{4}$ -inch holder with medium socket)	10	20	1.20
30660	Reflector only	3	5	5.00
30664	Cap, with wire holder	12	2	1.00

#### For 300-Watt Lamps

30665	Complete unit, including Holder-Socket, reflector and metal cap	3	25	8.20
30666	Holder-Socket only ( $3\frac{1}{4}$ -inch holder with mogul socket)	10	25	1.80
30660	Reflector only	3	5	5.00
30667	Cap, with wire holder	12	2	1.40

The reflector is identical for all units, the only difference in the three sizes being in the depth of the holder and the size of the cap.

Lamps are not furnished with the reflectors.

#### SCHEDULE "H" DISCOUNTS

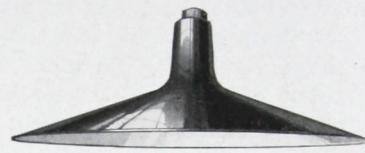
## Cutter SOLUX One-Piece Reflectors

Sol-lux One-Piece Reflectors consist of porcelain-enameled-steel reflector bodies, with keyless porcelain or pull-chain brass sockets. The sockets are tapped for  $\frac{1}{2}$ -inch conduit, and are furnished with lock-nuts and lead washers. Deep-bowl reflectors are ventilated, and for outdoor service should be equipped with caps.

### Flat-Cone Reflectors

#### With Keyless Porcelain Sockets

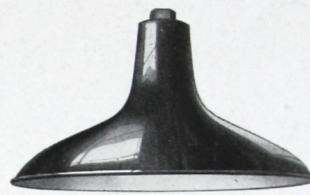
Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30474	25-40	12	Medium	20	90	\$2.40
30475	60-75	14	Medium	20	95	2.80
30476	100-150	16	Medium	20	100	3.05
30477	200	18	Medium	20	110	3.60
30478	200	20	Medium	20	135	4.15
30479	300-400-500	20	Mogul	10	75	4.50



Flat-Cone One-Piece Reflector

#### With Pull-Chain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30480	25-40	12	Medium	20	90	3.10
30481	60-75	14	Medium	20	95	3.50
30482	100-150	16	Medium	20	100	3.75
30483	200	18	Medium	20	110	4.30
30484	200	20	Medium	20	135	4.85



Shallow-Bowl One-Piece Reflector

### Shallow-Bowl Reflectors

#### With Keyless Porcelain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30569	25-40-60	12	Medium	20	100	2.55
30573	75-100-150	14	Medium	20	125	2.85
30577	200	16	Medium	20	140	3.50
30486	200	18	Medium	20	150	4.10
30585	300-400-500	18	Mogul	10	80	4.45

#### With Pull-Chain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30570	25-40-60	12	Medium	20	101	3.25
30574	75-100-150	14	Medium	20	126	3.55
30578	200	16	Medium	20	140	4.20
30487	200	18	Medium	20	150	4.80



Deep-Bowl One-Piece Reflector with Ventilating Cap and Lamp Guard

### Deep-Bowl Reflectors

#### With Keyless Porcelain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30550	25-40-60	7	Medium	20	45	2.25
30554	75-100-150	8	Medium	20	50	2.35
30558	200	9	Medium	20	70	2.45
30488	200	11	Medium	20	85	3.35
30566	300-400-500	11	Mogul	10	55	3.70

#### With Pull-Chain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30551	25-40-60	7	Medium	20	45	2.95
30555	75-100-150	8	Medium	20	50	3.05
30559	200	9	Medium	20	70	3.15
30489	200	11	Medium	20	85	4.05



Angle Type One-Piece Reflector

### Angle Reflectors

#### With Keyless Porcelain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30490	75	8	Medium	20	40	2.90
30491	100	9	Medium	20	45	3.10
30492	200	11	Medium	20	55	4.35
30493	300-400-500	11	Mogul	10	30	4.70

#### With Pull-Chain Sockets

Trade No.	For Mazda Lamp Size	Diam. Inches	Size of Socket	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30494	75	8	Medium	20	40	3.60
30495	100	9	Medium	20	45	3.80
30496	200	11	Medium	20	55	5.05

### Ventilating Caps

30568	For deep-bowl reflectors	20	10	.40
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### Lamp Guards

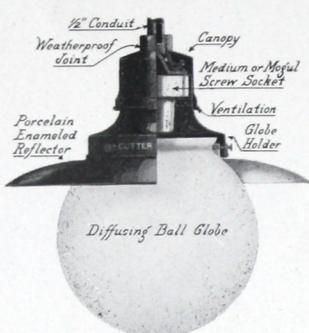
Made for attaching to reflectors listed above and to those of corresponding diameters listed on previous pages. Brass padlocks with two keys, 50 cents list additional.

Trade No.	Diam. Inches	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each	Trade No.	Diam. Inches	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each	Trade No.	Diam. Inches	Std. Pkg.	Wt., Lbs., Std. Pkg.	Price Each
30588	8	20	18	\$1.15	30591	11	20	23	1.45	30594	15	20	32	2.10
30589	9	20	20	1.25	30592	12	20	25	1.55	30595	16	20	35	2.40
30590	10	20	22	1.35	30593	14	20	30	1.65	30596	18	20	40	2.90

### SCHEDULE "H" DISCOUNTS

## Cutter SOL-LUX Pendant Fixtures For Mazda "C" Lamps

Holders for "Sol-lux" Fixtures are manufactured in both porcelain-enameled-steel and cast-iron types. Porcelain-enameled holders are made of annealed steel with three coats of the best quality porcelain enamel, and cast-iron holders are of light but substantial construction, galvanized and finished in black paint enamel to prevent rust. The holders are ventilated and are tapped at the top for  $\frac{1}{2}$ -inch conduit. Either medium or mogul screw lamp-grip sockets are furnished with the holders and the same canopy, socket support and lock-nut may be used with either the 6-inch or 8-inch holders. For 200-watt or smaller Mazda "C" lamps 6x10-inch diffusing ball or acorn globes or 6x8-inch diffusing stalactites are recommended; for larger lamps 8x12-inch diffusing ball or acorn globes are recommended. Standard package quantities consist of 12 of one style or trade number.

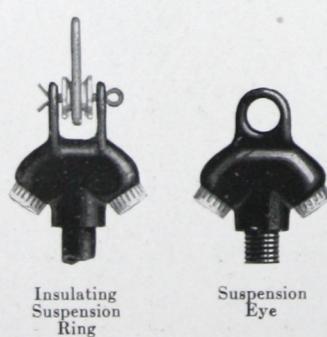


Cross-Section of "Sol-lux" Holder



"Sol-lux" Holder  
with Reflector,  
Acorn Globe and  
Stem Suspension

"Sol-lux" Holder  
with Stalactite  
and Chain  
Suspension



### Porcelain-Enameled-Steel Fixtures

Trade No.	Description	Ship. Wt., Lbs. Ea.	Price Each
30542	6-in. holder only, medium socket.....	6	\$2.70
30543	6-in. holder only, mogul socket.....	6	2.90
30451	6-in. holder, 10-in. ball globe, medium socket.....	13	4.70
30452	6-in. holder, 10-in. acorn globe, medium socket.....	13	5.45
30453	6-in. holder, 8-in. stalactite, medium socket.....	12	4.70
30458	6-in. holder, 12-in. ball globe, medium socket.....	14	5.95
30459	6-in. holder, 12-in. ball globe, mogul socket.....	14	6.15
30544	8-in. holder only, medium socket.....	7	2.90
30545	8-in. holder only, mogul socket.....	7	3.10
30454	8-in. holder, 12-in. ball globe, medium socket.....	17	6.15
30455	8-in. holder, 12-in. ball globe, mogul socket.....	17	6.35
30456	8-in. holder, 12-in. acorn globe, medium socket.....	17	7.15
30457	8-in. holder, 12-in. acorn globe, mogul socket.....	17	7.35
30518	Porcelain-enameled 6x12-in. reflector, extra.....	7	1.25
30519	Porcelain-enameled 8x18-in. reflector, extra.....	8	2.00

### Cast-Iron Fixtures

30520	6-in. holder only, medium socket.....	8	1.90
30521	6-in. holder only, mogul socket.....	8	2.10
30460	6-in. holder, 10-in. ball globe, medium socket.....	15	3.90
30461	6-in. holder, 10-in. acorn globe, medium socket.....	15	4.65
30462	6-in. holder, 8-in. stalactite, medium socket.....	14	3.90
30470	6-in. holder, 12-in. ball globe, medium socket.....	16	5.15
30471	6-in. holder, 12-in. ball globe, mogul socket.....	16	5.35
30522	8-in. holder only, medium socket.....	9	2.10
30523	8-in. holder only, mogul socket.....	9	2.30
30463	8-in. holder, 12-in. ball globe, medium socket.....	19	5.35
30464	8-in. holder, 12-in. ball globe, mogul socket.....	19	5.55
30465	8-in. holder, 12-in. acorn globe, medium socket.....	19	6.35
30466	8-in. holder, 12-in. acorn globe, mogul socket.....	19	6.55

### Suspension Parts

Suspension parts listed below may be used with any of the holders listed above for making complete fixtures.

#### Suspension Eyes and Rings

Made of cast iron, finished in black paint enamel, or galvanized and painted. One style has porcelain bushings for wires and a suspension ring insulated from the hanger; the other style has non-insulating eye for suspension.

30195	Suspension eye, paint enameled.....	2	.60
30196	Suspension eye, galvanized.....	2	.70
30029	Insulating suspension ring, paint enameled.....	2	.70
30030	Insulating suspension ring, galvanized.....	2	.80

#### Stems and Chains

Made of brass, with gun-metal finish; 18-inch drop; prices include canopy and wiring.

30031	Stem, with crowfoot.....	6	2.20
30032	Stem, with $\frac{3}{8}$ -inch hickey.....	6	2.10
30033	Stem, with $\frac{3}{8}$ -inch insulating joint.....	6	2.50
30034	Chain, with crowfoot.....	4	2.70
30035	Chain, with $\frac{3}{8}$ -inch hickey.....	4	2.60
30036	Chain, with $\frac{3}{8}$ -inch insulating joint.....	4	3.10

$\frac{1}{2}$ -inch hickeys and insulating joints furnished in place of  $\frac{3}{8}$ -inch, when so ordered, at same price. For longer lengths of stem or chain suspension, add 50 cents per foot additional.

#### SCHEDULE "H" DISCOUNTS

## Cutter **SOLOLUX** Bracket Fixtures For Mazda "C" Lamps

For 200-watt or smaller Mazda "C" lamps 6x10-inch diffusing ball or acorn globes or 6x8-inch diffusing stalactites are recommended; for 300-watt and larger lamps 8x12-inch diffusing ball or acorn globes are recommended. Fixtures listed below are furnished with "Sol-lux" cast-iron holders with lamp-grip sockets, but are not wired.

For porcelain-enameled-steel holders instead of cast-iron holders, add 80 cents list to the prices below.

For 6x15-inch porcelain-enameled-steel reflector, No. 30518, add \$1.25 list; for 8x18-inch porcelain-enameled-steel reflector, No. 30518, add \$2.00 list.

For sign on globe, add \$1.50 list for less than 20 letters; add \$3.00 list for 20 to 40 letters.

### Standard Brackets with **SOLOLUX** Holders

A simple form of bracket suspension, consisting of a 3-foot gooseneck of  $\frac{1}{2}$ -inch pipe, with grooved wall-plate for inner wiring,

	Ship. Wt. Lbs. Ea.	Med. Sc. Skt. No.	Trade Price Each	Mogul Sc. Skt. No.	Trade Price Each
With 6-in. holder only.....	10	30801	\$2.60	30802	\$2.80
With 8-in. holder only.....	11	30803	2.80	30804	3.00
With 6x10-in. ball globe.....	17	30805	4.60	30806	4.80
With 6x10-in. acorn globe.....	17	30807	5.35	30808	5.55
With 6x 8-in. stalactite.....	16	30809	4.60	30810	4.80
With 8x12-in. ball globe.....	19	30811	6.05	30812	6.25
With 8x12-in. acorn globe.....	19	30813	7.05	30814	7.25

For galvanized bracket, add 30 cents list.

### Spartan Junior Brackets with **SOLOLUX** Holders

An artistic and substantial bracket made of  $\frac{1}{2}$ -inch pipe, with wrought iron scroll and grooved wall-plate for inner wiring; holds the lamp 3 feet from wall.

With 6-in. holder only.....	18	30815	4.20	30816	4.40
With 8-in. holder only.....	19	30817	4.40	30818	4.60
With 6x10-in. ball globe.....	25	30819	6.20	30820	6.40
With 6x10-in. acorn globe.....	25	30821	6.95	30822	7.15
With 6x 8-in. stalactite.....	24	30823	6.20	30824	6.40
With 8x12-in. ball globe.....	27	30825	7.65	30826	7.85
With 8x12-in. acorn globe.....	27	30827	8.65	30828	8.85

For galvanized bracket, add 70 cents list.

### Wall Brackets with **SOLOLUX** Holders

Consists of a 4-foot gooseneck of  $\frac{1}{2}$ -inch pipe with wall-flange; holds the lamp 3 feet from wall, leaving 1 foot of pipe to extend through the wall for interior wiring.

With 6-in. holder only.....	11	30829	3.00	30830	3.20
With 8-in. holder only.....	12	30831	3.20	30832	3.40
With 6x10-in. ball globe.....	18	30833	5.00	30834	5.20
With 6x10-in. acorn globe.....	18	30835	5.75	30836	5.95
With 6x 8-in. stalactite.....	17	30837	5.00	30838	5.20
With 8x12-in. ball globe.....	20	30839	6.45	30840	6.65
With 8x12-in. acorn globe.....	20	30841	7.45	30842	7.65

For galvanized bracket, add 40 cents list.

### Entrance Brackets with **SOLOLUX** Holders

Consists of a 4-foot gooseneck of  $\frac{3}{4}$ -inch pipe, elbow and piece of  $\frac{1}{2}$ -inch pipe at outer end; cast-iron scroll and wall-plate; holds the lamp 3 feet from wall.

With 6-in. holder only.....	28	30843	5.45	30844	5.65
With 8-in. holder only.....	29	30845	5.65	30846	5.85
With 6x10-in. ball globe.....	35	30847	7.45	30848	7.65
With 6x10-in. acorn globe.....	35	30849	8.20	30850	8.40
With 6x 8-in. stalactite.....	34	30851	7.45	30852	7.65
With 8x12-in. ball globe.....	37	30853	8.90	30854	9.10
With 8x12-in. acorn globe.....	37	30855	9.90	30856	10.10

For galvanized bracket, add \$1.00 list.



Standard  
Bracket with  
"Sol-lux" Holder  
and Diffusing  
Ball Globe



Spartan Junior Bracket with  
"Sol-lux" Holder Reflector  
and Stalactite



Wall Bracket with  
"Sol-lux" Holder and  
Diffusing Ball Globe



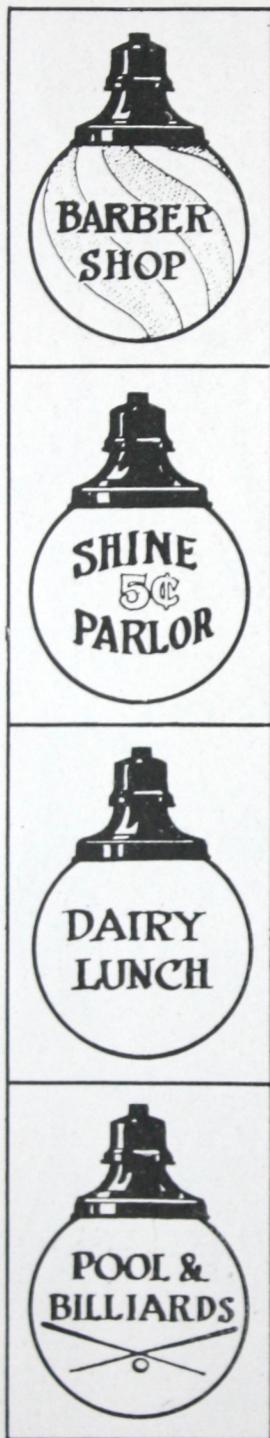
Entrance Bracket  
with "Sol-lux"  
Holder, Reflector and  
Acorn Diffusing  
Globe

### SCHEDULE "H" DISCOUNTS

## Cutter SOLUX Sign Lights

"Sol-lux" Sign Lights consist of "Sol-lux" Holders with painted diffusing ball globes. Prices include cast-iron holder; for porcelain-enameled-steel holder, add 80 cents list. Add the price of the sign light selected to the price of the bracket selected to obtain the list price of the complete fixture.

Signs or emblems are painted on one side only; for painting on two sides, add \$1.50 list; for prices for special lettering and for illustrations of brackets, refer to the previous page. Shipping weight of sign light, 19 pounds; standard package quantity, 12 sign lights.



Trade  
No.

Description

Price  
Each

30608 6-in. holder, 6x10-in. globe, med. sc. skt. \$5.40  
30609 6-in. holder, 6x10-in. globe, mog. sc. skt. 5.60  
30610 8-in. holder, 8x12-in. globe, med. sc. skt. 6.85  
30611 8-in. holder, 8x12-in. globe, mog. sc. skt. 7.05

### Theatre Sign Lights

30616 6-in. holder, 6x10-in. globe, med. sc. skt. 5.40  
30617 6-in. holder, 6x10-in. globe, mog. sc. skt. 5.60  
30618 8-in. holder, 8x12-in. globe, med. sc. skt. 6.85  
30619 8-in. holder, 8x12-in. globe, mog. sc. skt. 7.05

### Shine-Parlor Sign Lights

30620 6-in. holder, 6x12-in. globe, med. sc. skt. 5.40  
30621 6-in. holder, 6x10-in. globe, mog. sc. skt. 5.60  
30622 8-in. holder, 8x12-in. globe, med. sc. skt. 6.85  
30623 8-in. holder, 8x12-in. globe, mog. sc. skt. 7.05

### Billiard Sign Lights

30624 8-in. holder, 8x12-in. globe, med. sc. skt. 6.85  
30625 8-in. holder, 8x12-in. globe, mog. sc. skt. 7.05

### Barber-Shop Sign Lights

30606 8-in. holder, 8x12-in. globe, med. sc. skt. 8.35  
30607 8-in. holder, 8x12-in. globe, mog. sc. skt. 8.55

### Masonic Sign Lights

30600 8-in. holder, 8x12-in. globe, med. sc. skt. 8.35  
30601 8-in. holder, 8x12-in. globe, mog. sc. skt. 8.55

### B. P. O. E. Sign Lights

30602 8-in. holder, 8x12-in. globe, med. sc. skt. 8.35  
30603 8-in. holder, 8x12-in. globe, mog. sc. skt. 8.55

### Knights of Columbus Sign Lights

30604 8-in. holder, 8x12-in. globe, med. sc. skt. 8.35  
30605 8-in. holder, 8x12-in. globe, mog. sc. skt. 8.55

### Standard Brackets

Consist of a 3-foot gooseneck of  $\frac{1}{2}$ -inch pipe, with grooved wall-plate for inner wiring.

Trade  
No.

Description

Ship. Wt.,  
Lbs. Ea.

Price  
Each

30627 Bracket only, painted..... 4 \$0.70  
30628 Bracket only, electro-galvanized and painted..... 4 1.00

### Wall Brackets

Consist of a 4-foot gooseneck of  $\frac{1}{2}$ -inch pipe and wall-plate; holds lamp three feet from wall, leaving one foot of pipe to extend through wall for interior wiring.

30638 Bracket only, painted..... 5 1.10  
30639 Bracket only, electro-galvanized and painted..... 5 1.50

### Spartan Junior Brackets

Made of  $\frac{1}{2}$ -inch pipe, with wrought-iron scroll and grooved wall-plate; holds the lamp three feet from wall.

30631 Bracket only, painted..... 12 2.30  
30632 Bracket only, electro-galvanized and painted..... 12 3.00

### Entrance Brackets

Consist of a 4-foot gooseneck of  $\frac{3}{4}$ -inch pipe, elbow and piece of  $\frac{1}{2}$ -inch pipe, with cast-iron scroll and wall-plate; holds the lamp three feet from wall.

30642 Bracket only, painted..... 22 3.55  
30643 Bracket only, electro-galvanized and painted..... 22 4.55

### SCHEDULE "H" DISCOUNTS

